

Response
Application No. 09/784,308
Attorney Docket No. 010169

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

LISTING OF THE CLAIMS:

Claim 1 (Previously Presented): A digital camera comprising:

a first writer for writing to a first area of a memory a raw image of an objective scene captured in response to a capturing instruction;

a reader for reading the raw image stored in said first area;

a first producer for producing an image for recording based on the raw image read out by said reader;

a second producer for producing an image for display based on the image for recording produced by said first producer;

a second writer for writing to a second area of said memory the image for display produced by said second producer; and

a third writer for writing to a third area of said memory the image for recording produced by said first producer; wherein an access speed to said memory is three times greater or more than a processing speed of each of said first producer and said second producer, and the image for recording produced by said first producer is applied to said second producer without passing through said memory.

Claim 2 (Original): A digital camera according to claim 1, further comprising a buffer memory to be accessed at a first clock rate and a second clock rate of three times greater or more

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than the first clock rate, wherein a difference between the access speed to said memory and the processing speed of said first and second producers is absorbed by said buffer memory.

Claim 3 (Previously Presented): A digital camera according to claim 1, wherein said second producer makes a resolution-reducing process on the image for recording so as to produce the image for display.

Claim 4 (Previously Presented): A digital camera according to claim 1, wherein said memory has a single data input/output port, and each of said first writer, said reader, said second writer and said third writer accesses said memory through said data input/output port.

Claim 5 (Previously Presented): A digital camera according to claim 1, wherein the raw image is an image that each pixel has any one color component, and each of the image for display and the image for recording is an image corresponding to a YUV format.

Claim 6 (Previously Presented): A digital camera according to claim 1, further comprising: an outputter for outputting the image for display to a display monitor by reading same from said second area; and a recorder for recording the image for recording to a recording medium by reading same from said third area.

Claim 7 (Currently Amended): A digital camera, comprising:

a first producer for producing a main image for recording on the basis of a raw image of an

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objective scene captured in response to a capturing instruction;

a second producer for producing an image for display having a lower resolution by making a ~~first~~ resolution-reducing process on the main image for recording produced by said first producer; ~~and~~

a third producer for producing a size-reduced image for recording having a lower resolution by making a ~~second~~ resolution-reducing process on the image for display produced by said second producer;

an outputter for outputting to a display monitor the image for display produced by said second producer; and

a recorder for recording to a recording medium the main image for recording and the size-reduced image for recording respectively produced by said first producer and said third producer, wherein said first producer includes a converter for converting an image format to a YUV format, and each of the main image for recording, the image for display and the size-reduced image for recording is an image corresponding to a said YUV format, ~~a resolution of the main image for recording is higher than the resolution of the image for display, the resolution of the image for display is higher than the resolution of the size-reduced image for recording, and each of the first process and the second process includes a resolution-reducing process.~~

Claim 8 (Canceled).

Claim 9 (Previously Presented): A digital camera according to claim 7, wherein the raw image is an image that each pixel has any one color component.

Claim 10 (Previously Presented): A digital camera according to claim 7, further comprising: a

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first writer for writing the main image for recording produced by said first producer to a first memory area; a second writer for writing the image for display produced by said second producer to a second memory area; a reader for reading the image for display stored in said second memory area so as to supply same to said third producer; and a third writer for writing the size-reduced image for recording produced by said third producer to a third memory area.

Claim 11 (Canceled).

Claim 12 (New): A digital camera according to claim 7, wherein said second producer carries out a producing process in parallel with a producing process of said first producer, and said third producer carries out a producing process after each of said first producer and said second producer has carried out the producing process.

Claim 13 (New): A digital camera according to claim 10, wherein said second producer carries out a producing process in parallel with a producing process of said first producer, and said third producer carries out a producing process after each of said first producer and said second producer has carried out the producing process.